

SMALL PRESSURE LOGGER



COMPACT,
ACCURATE,
DEPENDABLE

The RBRsolo³ D is a compact, lightweight, and versatile single-channel instrument with a piezoresistive pressure sensor. It offers high performance, flexible measurement schedules, and long deployments. Low power consumption, large memory, and ability to endure harsh conditions make the RBRsolo³ D a perfect choice for many oceanographic applications.

FEATURES



Long
deployments



Compact and
lightweight



Any AA
battery



Up to 32Hz
sampling



USB-C
download



Cabled RBRcoda³
variant available

The following configurations are available:

- ▶ RBRsolo³ D pressure, up to 2Hz continuous sampling
- ▶ RBRsolo³ D|fast16 pressure, up to 16Hz continuous sampling
- ▶ RBRsolo³ D|fast32 pressure, up to 32Hz continuous sampling
- ▶ RBRsolo³ D|tide16 pressure, up to 16Hz bursts with tidal averaging
- ▶ RBRsolo³ D|wave16 pressure, up to 16Hz bursts with wave analysis

Deep variant:

- ▶ RBRsolo³ D|deep depths up to 10000m

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The RBRsolo³ D facilitates optimal measurement schedules, whether moored, towed, or profiling. Large storage capacity and reliable battery power facilitate long deployments with higher sampling rates. Downloads are quick with USB-C. A dedicated holder makes it simple to replace desiccant before each deployment. The calibration coefficients are stored with the instrument, and only one software tool, Ruskin, is required to operate it. Datasets can be read directly in Matlab, or exported to Excel, OceanDataView®, or text files.

Specifications

Physical

Storage	~65 million samples
Power	Any AA cell
Communication	USB-C
Clock drift	±60 seconds per year
Depth rating	up to 1000m (plastic), up to 10000m (Ti)
Diameter	~25mm
Length	~210mm
Weight	130g in air, 30g in water (plastic) 330g in air, 230g in water (Ti)

Pressure

Range*	20 / 50 / 100 / 200 / 500 / 1000dbar (plastic) 1000 / 2000 / 4000 / 6000 / 10000dbar (Ti)
Initial accuracy	±0.05% full scale
Resolution	<0.001% full scale
Typical stability	±0.05% full scale / year
Time constant	<10ms

*Recommended depth for wave measurements is less than 50m.

Deployment estimates

RBRsolo³ D

Sampling rates	24hr to 1s, and 2Hz		
Autonomy	Speed	Time	# samples
	2Hz	62 days	10M

RBRsolo³ D | fast16

Sampling rates	24hr to 1s, and 2Hz, 4, 8, 16Hz		
Autonomy	Speed	Time	# samples
	16Hz	44 days	60M

RBRsolo³ D | fast32

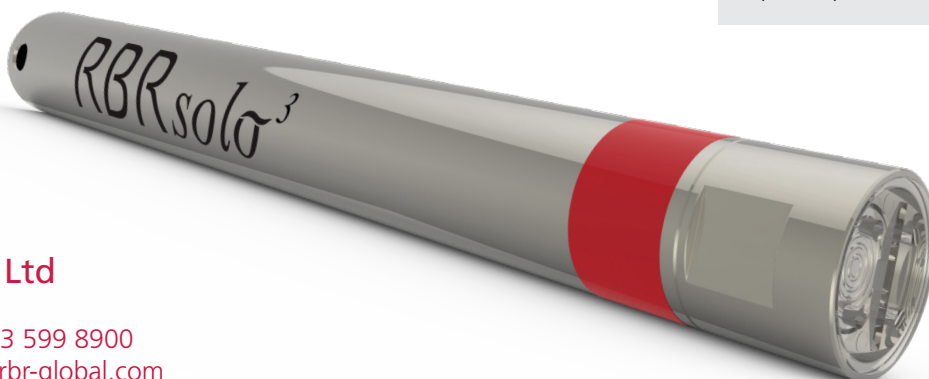
Sampling rates	24hr to 1s, and 2Hz, 4, 8, 16, or 32Hz		
Autonomy	Speed	Time	# samples
	32Hz	24 days	60M

Realtime variants

Cabled realtime variants are available as the RBRcoda³ D.

Deep variant

Explore up to 10km deep with RBRsolo³ D | deep.



RBR Ltd

+1 613 599 8900
info@rbr-global.com
rbr-global.com